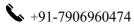
AAYUSH KUMAR

C++, Python Developer - Machine Learning Enthusiast - Aspiring Data Scientist



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EDUCATION

Army institute of technology

Bachelor of Engineering - Computer Engineering: 8.44 CGPA

08/2023 – **07/2027** Pune, Maharastra

EXPERIENCE

Google Developers Group

Core Member ML domain

- Organized ML study jams and taught basic machine learning and data preprocessing to approximately 100 first-year students.
- Conducted "ENLIVEN" hackathon on the footsteps of Google solutions challenge where more than 400 students from all over india participated.
- Jointly Worked on an application that enables digital attendance for students using facial recognition.

SKILLS SUMMARY

- Languages C++, Python, C, SQL
- Tools Jupyter, Github, Kaggle, Tensorflow, Streamlit.
- Tech Skills Machine Learning, Deep Learning, Data Visualisation and processing, Data structures and algorithms, NLP
- Soft Skills Public Speaking, Content Writing, Event Management.

PROJECTS

Crop production predictor.

Deployed application

- Developed a regression model to predict the different crop productions across various districts of states of India.
- Collected and preprocessed a dataset containing over 200000 records and performed feature engineering.
- Utilised unsupervised models like Kmeans to cluster similar crop patterns and trained multiple ensemble models To accurately predict the production.
- Achieved R² score of 0.96. Deployed the model on cloud using Streamlit.

PDF Professor Repository

- Developed a machine learning model to scan pdf files and return heading and subheadings.
- Created a custom dataset by extracting information from multiple PDFs, preprocessing the data, and performing feature engineering(Word count, Font Size, Position of text on page).
- Trained different models finally settled on Random forest Classifier.
- Tested on different types of PDF files and achieved accuracy R2 score of 0.88.

Book recommender system.

- Built a recommendation system to suggest books based on user preferences and reading history.
- Implemented collaborative filtering (using KNN)).
- Processed and analysed a dataset containing book ratings, genres, and metadata for personalized suggestions.
- Achieved a recommendation accuracy of 0.7 using evaluation metrics like precision@K.

ACHIEVEMENTS

- Submitted a research paper to ICSCIS 2025 as a conference participant.
- Competitions Contributor on Kaggle.
- 1st position in SPARK hackathon.
- 1st position in GAME-A-THON hackathon.
- Solved over 500 coding questions on various coding platforms like Hackerrank, Codeforces etc.

CERTIFICATIONS

Google Cloud Computing Foundations: by Google
Supervised Machine Learning by Deeplearning.ai
02/2024

• Scaler data science and machine learning program 12/2024